## Pongkhamsing, Chan

**From:** Pongkhamsing, Chan
**Sent:** Monday, February 13, 2017 12:48 PM
**To:** 'Stebbings, Jennifer'; Thiesing, Mary
**Cc:** Rettmann, Mark; Shawn Mahugh (smahugh@geoengineers.com); Warfield, Tony
**Subject:** RE: Upper Clear Creek Mitigation Site Clarification

Hi Jennifer,
Yes, Mary Anne and I concur on this as it does capture the substance of our discussion and agreed process forward.

Respectfully,

Chan Pongkhamsing
CWA 404 Enforcement Coordinator
Office of Compliance and Enforcement
U.S. EPA, Region 10
1200 Sixth Avenue, Mail Stop OCE-101
Seattle, Washington 98101
(206) 553-1806

**From:** Stebbings, Jennifer [mailto:jstebbings@portoftacoma.com]
**Sent:** Friday, February 10, 2017 5:22 PM
**To:** Pongkhamsing, Chan <Pongkhamsing.Chan@epa.gov>; Thiesing, Mary <Thiesing.Mary@epa.gov>
**Cc:** Rettmann, Mark <MRettmann@portoftacoma.com>; Shawn Mahugh (smahugh@geoengineers.com) <smahugh@geoengineers.com>; Warfield, Tony <twarfield@portoftacoma.com>; Stebbings, Jennifer <jstebbings@portoftacoma.com>
**Subject:** RE: Upper Clear Creek Mitigation Site Clarification

Good Afternoon Everyone,

Per the phone conversation I had with Chan and Mary Anne earlier today, here is the Port's plan regarding the stream gauges at the Upper Clear Creek Mitigation Site.

The upstream gauge (SG-4) will remain in place, and temperature and DO readings will be taken from this location. This location is a departure from the BOD. The thought is that there will be little to no difference in temp or DO between the BOD location and where the stream gauge was installed, except maybe during periods of low flow. During Year 1 monitoring at periods of low flow, the Port will take grab samples upstream of the diversion structure and at the SG-4 location during three separate site visits. If there is a significant difference between the two locations (>10%), then the Port will revisit SG-4's location to ensure it is representative of the data we want to collect.

The downstream gauge (SG-1) will also remain in place and temperature and DO readings will be taken from this location. This location is consistent with language in the BOD; however, EPA thinks this location does not fully capture the contribution of treated water from the site's constructed channels to the stream system. By incorporating the original channel (i.e., untreated water), the SG-1 location represents the temp and DO of the overall creek, not necessarily the site itself. The Port has offered to take three grab samples during Year 1 monitoring at EPA's proposed downstream sampling location (at the footbridge) and at SG-1 to note any significant changes between the two locations. If there is a significant difference between the two locations (>10%), then the Port will revisit SG-1's location.

Chan and Mary Anne, please let me know if I've missed anything.

Thank you for taking the time to discuss this today and I hope you have a great weekend!

-Jenn

Environmental Project Manager I – Biologist | Port of Tacoma | (w) 253.592.6793

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**From:** Pongkhamsing, Chan [mailto:Pongkhamsing.Chan@epa.gov]
**Sent:** Thursday, January 19, 2017 4:22 PM
**To:** Stebbings, Jennifer <jstebbings@portoftacoma.com>
**Subject:** RE: Upper Clear Creek Mitigation Site Clarification

Hi Jennifer,
Let me consult with our lead wetland scientist, Mary Anne Thiesing, who co-wrote the Basis of Design. Unfortunately, she's on annual leave until next Thursday. Hope you don't mind waiting a little longer.

Respectfully,

Chan Pongkhamsing
CWA 404 Enforcement Coordinator
Office of Compliance and Enforcement
U.S. EPA, Region 10
1200 Sixth Avenue, Mail Stop OCE-101
Seattle, Washington 98101
(206) 553-1806

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**From:** Stebbings, Jennifer [mailto:jstebbings@portoftacoma.com]
**Sent:** Wednesday, January 18, 2017 4:01 PM
**To:** Pongkhamsing, Chan <Pongkhamsing.Chan@epa.gov>
**Cc:** Rettmann, Mark <MRettmann@portoftacoma.com>; Warfield, Tony <twarfield@portoftacoma.com>; Shawn Mahugh (smahugh@geoengineers.com) <smahugh@geoengineers.com>; Stebbings, Jennifer <jstebbings@portoftacoma.com>
**Subject:** Upper Clear Creek Mitigation Site Clarification

Good Afternoon Chan,

Thank you very much for your approval letter of the as-built report for the Upper Clear Creek Mitigation Site. I'm sorry I missed you during your site visit! Hopefully I will catch you next time.

I want to get clarification/confirmation from you regarding one of the water quality components of the site. In the 2013 Upper Clear Creek Mitigation Site Basis of Design Report, the following language is found under 4.0 MONITORING, ADAPTIVE MANAGEMENT AND CONTINGENCY PLANS:

*4.2.5Water Quality*
Dissolved oxygen ("DO") and temperature will be monitored both upstream and downstream of the UCCMS. The Port will monitor DO and temperature upstream of the first diversion structure and downstream of the confluence of the constructed channel with the existing Clear Creek channel, upstream of the Gay Road culvert. (page 81 of the report)

The Port determined that the "upstream" monitoring point for temperature and DO would be taken at SG-4 (please see attached figure). This stream gauge is located immediately upstream of the first diversion structure at the confluence of the original stream configuration and the newly constructed channel. Can you please confirm that this monitoring point is acceptable to EPA? We are gearing up for our Year 1 monitoring and want to make sure EPA is aware and accepts our

plans to use this stream gauge as our upstream monitoring point for the site. If this is not acceptable, please let me know as soon as possible so we can make other arrangements immediately.

Thank you and I look forward to hearing from you!

**Jenn Stebbings** | Environmental Project Manager I – Biologist | Port of Tacoma | (w) 253.592.6793
www.portoftacoma.com

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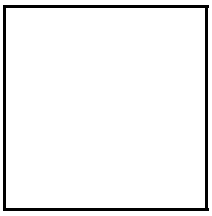



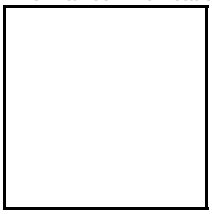

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